

**Powdery polyacrylic emulsion polymer - contg. grains of aggregated latex particles with bimodal particle size distribution**

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**Patent Family**

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
DE 3405651	A	19850822	DE 3405651	A	19840217	198535	B
EP 154189	A	19850911	EP 85101320	A	19850208	198537	
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**Priority Applications (Number Kind Date):** DE 3405651 A ( 19840217)

**Cited Patents:** A3...8649; EP 41125; EP 81083; FR 2122182; No search report pub.; WO 8302280

**Patent Details**

Patent	Kind	Language	Page	Main IPC	Filing Notes
DE 3405651	A		37		
EP 154189	A	G			
Designated States (Regional): DE FR GB IT NL SE					
JP 95113045	B2		12	C08F-006/14	Based on patent JP 60195110

**Abstract:**

DE 3405651 A

In a powdery emulsion polymer, with grains consisting of aggregated latex particles, of a polymer of an acrylic monomer, opt. mixed with styrene, where the Tg of the polymer is not below 45 deg.C, the grains are composed of aggregated latex particles with a bimodal particle size distribution.

**USE/ADVANTAGE** - Bulk wt. of the powder is 10-30% greater than for a similar unimodal polymer, and the fines content is lower e.g. below 5% or even below 1%, compared with at least 5-10% for powders from unimodal dispersions. There is no effect on the fine structure of the grains. During handling of the powder, the content of fine dust in the air can be held below the acceptable limits. Bimodal dispersions can be spray-dried at higher solids content, for the same viscosity, than unimodal dispersions; energy need is lower, and productivity is higher. The powders can be mixed homogeneously with powders of higher bulk wt., e.g. PVC powders. Uses include modifier for improving plastic processability or raising impact strength of thermoplastic moulding compsns., esp. PVC, for quickly sol. coatings and binders, for lacquers or printing inks contg. organic solvents, for plastisols and as anti-blocking additive to pigment-free finishing lacquers, e.g. for synthetic leather.

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Dialog® File Number 351 Accession Number 4383887